

1081 - 1781 - 1981MR英文中性说明书样本

To:
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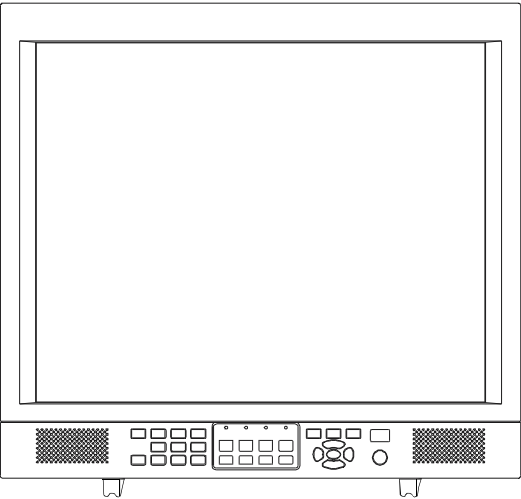
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LCD MONITOR
USER MANUAL
REV: 1.0

P/N:ZZXXMRCE01

LCD With Built-in DVR

User Manual



- ☐ 10"MR
- ☐ 17"MR
- ☐ 19"MR

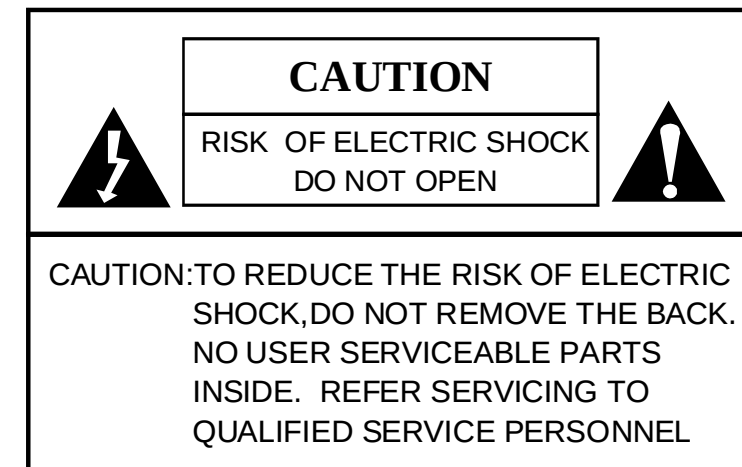
Foreword

This manual may contain technical inaccuracies, unconformity against the function and operation of the product, or typographical errors. This manual will be updated in accordance with product features reinforcement. The described product or program will be improved and updated regularly. The updating will be added into the new version without notice.

Due to the time limits, the limited proficiency of the editor, we hope that you can give valuable advice in order to gradually perfect the contents of this manual.

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Graphic Symbol Explanation



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated 'dangerous voltage' within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Warning - To Prevent Fire Or Shock Hazard, Do Not Expose This Monitor To Rain Or Moisture.

This Product Must Be Earthed.

Product Specification Is Subject To Change Without Notice.

IMPORTANT SAFEGUARDS

Caution

Power source is dedicated on the rear of the set. It contains high voltage Parts. If you remove the cover, it may cause fire or electric shock. Do not remove the cover by yourself.

1. Read Instructions:

All the safety and operating instructions should be read before the appliance is operated.
2. Follow Instructions:

All operating and use instructions should be followed.
3. Cleaning:

Unplug this monitor from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
4. Water and Moisture:

Do not use this monitor near water, for example, near a bathtub, wash bowl, kitchen sink, laundry Tub, in a wet basement, or near a swimming Pool, and the like.
5. Accessories:

Do not place this monitor on an unstable stand, tripod, bracket, or table. The monitor may fall, causing serious injury to a child or adult, and serious damage to the appliance. Use only with a cart, stand, tripod, bracket, or table recommended by supplier, or sold with the monitor.
6. Ventilation:

Slots and openings in the cabinet are provided for ventilation and ensure reliable operations of the monitor and to protect it from overheating, and these openings should never be blocked by placing the monitor on a bed, sofa, rug, or other similar surfaces. This monitor should never be placed near or over a radiator or heat register. This monitor should not be placed in a built - in installation such as a bookcase or rack unless proper ventilation is provided or supplier instructions have been adhered to.
7. Object and Liquid Entry:

Never push objects of any kind into this monitor through openings as they may touch dangerous voltage points or short - out parts that would result in a fire or electric shock. Never spill liquid of any kind on the monitor.
8. Repair(Servicing):

Do not attempt to repair this monitor yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer to qualified service personnel.
9. Replacement Parts:

When replacement parts are required, be sure the service technician uses replacement parts specified by supplier or have the same characteristics as the original parts. Unauthorized substitutions may result in fire, electric shock or other hazards.
10. Safety Check:

Upon completion of any service or repair to this monitor, ask the service technician to perform safety checks to determine that the monitor is in proper operating condition.
11. Retain Instructions:

The safety and operating instructions should be retained for future reference.

Camera setting	P/T/Z Agreement	Pelco - P、Pelco - D、Samsung、Panasonic、LILIN	Pelco - P
	P/T/Z Bout rate	1200、2400、4800、9600	2400
	P/T/Z address	Enter sub - menu setting directly	Channel no. 1
	Color setting	Brightness/Contast/Chromo/Saturation：8\8\8\8	8\8\8\8
	Motion sense	Highly sensitive, Standard sensitive, Low sensitive	Standard sensitive
	Motion event response	Trigger record, Alarm output, Sound alarm, upload center	Trigger the current channel to record
	Video loss response	Alarm output, sound, upload center	Disable
Network setup	Internet link	PPPoE Staid IP, Dynamic achieve IP, PPPoE	Staid IP
	Internet address	Enter sub - menu to setup directly	192.168.0.10
	Subnet	Enter sub - menu to setup directly	255.255.255.0
	Gatway	Enter sub - menu to setup directly	192.168.0.1
	HTTP port	Enter sub - menu to setup directly	80
	Signal port	Enter sub - menu to setup directly	5050
	Media port	Enter sub - menu to setup directly	6050
	DNS addres	Enter sub - menu to setup directly	202.103.24.68
	Dynamicy domian name	Enter sub - menu to setup directly	Disable
	Auto log in	Enter sub - menu to setup directly	Disable
Alarm	Communion Document	Enter sub - menu to setup directly	Disable
	Alarm input properties	Normally On/ Normally Close	N. O.
	Alarm Linkage	Trigger record, Alarm output, Sound alarm, Linkage PTZ	Trigger Alarm output/ sound

5.3 Appendix 3: System Default Informationv

Table 5 - 2 System Default Data

Setting item		Item in menu	Faulty
System setting	LANGUAG E	Traditional Chinese, Simple - Chinese, English	Simple - Chinese
	Camera Syetem	PAL、 NTSC、 SECAM	Auto adapt to the video source
	Record Resolution	CIF	CIF
	Summer Time	America Canada Great Britan Ireland, Portugul, exc	Disable
	Time format	12 - hour,24 - hour	12 - hour
	Keyword	Enter sub - menu to setup directly	Admin: 888888 User: 666666
Record	Record plan	Enter sub - menu to setup directly	24 - hour standard record
	Record quality	Best, High, Bette	High
	Record fame rate:	PAL: Full、 12、 6、 3、 1、 User setup NTSC: Full、 15、 7、 3、 1、 User setup SECAM: Full、 12、 6、 3、 1、 User setup	Ful
	Record source	Video, video & audieo	Video & audieo
	Superposition information	Channel title,Channel title & Time, Time	Channel title & T ime
	Sub code rate	Frame rate and Code rate faulty setting Frame rate: 1 - 15 frame /s Code rate: 32 - 512 kilobit/s	Disable Frame rate: 15 Code rate: 288

Chapter 1 Introduction

1.1 General

This series is a quadruplex built - in DVR product with functions of AV preview, record, playback and internet browse.

With professional, high performance LCD driver and intelligent audio & video solution, user - friendly GUI and practical industrial designs, this series is quite suitable for civil applications such as home, stores, Internet bars and small offices besides the common security & surveillance applications.

1.2 Main Features

Compression

- I 4/8/16 channels PAL / NTSC / SECAM video input and H.264 compression standard with each channel being compressed independently in real - time CIF resolution.
- I 4 channels audio input and G.726 compression standard with each channel being compressed independently in 24Kbps.

Remark: 10"MR,17"MR support 4 channels video input. 19"MR support 8 channels video input.

- I Video and audio signal compress to have compound bit - stream. Audio and video synchronization. Also support record video stream only.
- I Four - level selection of record quality and self - defined bit rate and frame rate supported.
- I Adjustable video parameters.
- I Multi - area motion detection.
- I OSD of channel name and time supported

Record

- I Manual record and schedule record supported. The schedule record types include: timing, motion detection, alarm, motion detection | alarm.
- I One SATA interface. One SATA hard disk supported.
- I Backup and clip record files through USB flash disk, portable USB HDD, and USB CD / RW supported.

Preview and playback

- I Preview and playback support Simultaneous output of local, CVBS, network.
- I Up to 4 channels playback in fast play mode, slow play mode, rewind and single frame forward supported.
- I OSD of channel name and time supported.
- I Status displaying of local record, alarm and motion detection supported.

Control

- I Controlling of PTZ and dome supported.
- I Setting and calling preset, sequence and track supported.

Alarm

- I Local alarm (includes exception and motion detection) triggered handling supported.
- I Alarm linkage: trigger record, linkage alarm output, linkage PTZ preset, sound alarm, report to alarm Center.

Network

- I TCP/IP supported
- I PPPoE supported
- I Dynamic access to IP address, Dynamic Host Configuration Protocol (DHCP) supported.
- I DDNS supported
- I Visit video files in hard disk though network neighborhood support.
- I Real-time preview, downloading and playback remotely through network supported.
- I Controlling of PTZ, configuring device parameters, acquiring device status and logs, and upgrade remotely through network supported.
- I Local recording through network supported.

I Alarm recordCaculative way

Note 1: Caculate the HD interspace (Di) for sigle channel firstly: Suppose alarming rate is $\alpha\%$, size of HD is S, number of channel is n,

$$D_i = (S / n) * \alpha \%$$

Note 2: Then check out record time (T) for each channel, to get the Di for every hour,

$$D_t = D_i / T$$

Note 3: Check out code rate of all channel:

$$D_c = D_t * (8 * 1024) / 3600 = D_t * 2.2756 \text{ (Kbit/s)}$$

5.2 Appendix 2: Hard Disk Capacity Calculation Method (For Your Inference)

To Caculate HD capacity that connects to DVR on base of the requirie of record(compress parameter of coding setting)

I Record - - -Caculation way

Note1: First to caculate the max HD interspace (Si (Mbyte))of single channel in 1hour, suppose code rate of the channel is D(Kbit/s), then the fomula as below:

$$Si = (D * 3600) / (8 * 1024) = D * 0.439453125 \text{ MB}$$

Note2: Make out the time for record saving T(hour),and caculate the max interspace of signle channel, fomula as below:

$$St = T * S1$$

Note3: Make the no. of channle of this equipment as n, S 1 is capacity of channel 1, S 2 is capacity of channel 2. Then the total capacity of the HD as:

I Alarming record Caculation way

Suppose alarming rate is a %, the total capacity of HD for alarming record could be caculate with refer to the total capacity of timing record Sc.

$$Sa = Sc * \alpha \%$$

Calculate the compression bit rate for recording T hours.

I Common record

Note 1: Suppose the capacity of the hard disk as S, the total numbers of the channel as n, The capacity of hard disk needed per channel supposed as Di is:

$$Di = S / n$$

Note 2: Suppose the total recording time is T hours, the capacity of the hard disk needed per channel supposed Dt is:

$$Dt = Di / T$$

Note3: The bit rate of all the channels supposed as Dc IS

$$Dc = Dt * (8 * 1024) / 3600 = Dt * 2.2756 \text{ (Kbit/s)}$$

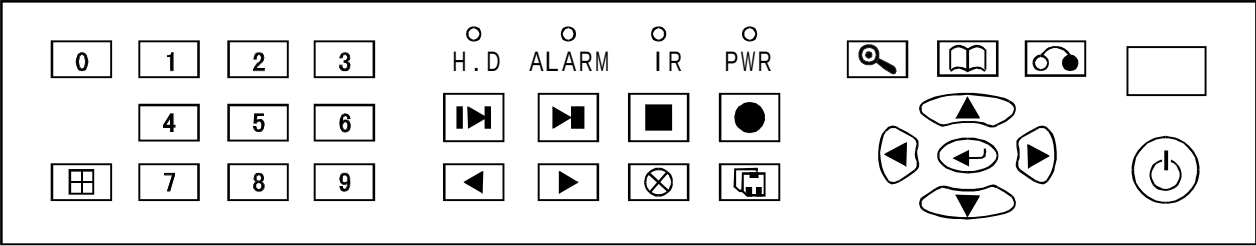
Chapter 2 Installation

2.1 Equipment and Components Checking.

Refer to the "Package Contents" for counting device fittings when you receive the product.

2.2 Front Panel

Panel indicator light and buttons as below:



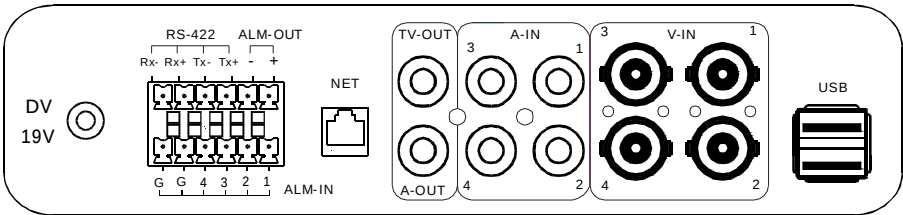
Picture 2 - 1 Front panel schematic diagram

Chart 2 - 1 Front panel buttons information

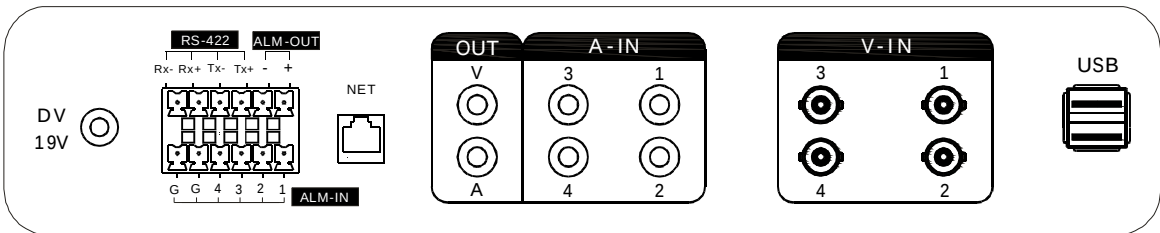
NO.	Type	Name	Information
①	Buttons	PTZ Operation Key	1. iris zoom in 2. iris zoom out 3. focus in 4. focus out
		Numbers	0 - 9 number buttons 1. for input numbers 2. One key channel selection in preview mode.
②	Arrow Buttons	Arrow Buttons: [▲], [▼], [◀], [▶]	Including 4 buttons: 1. When in menu mode, press [▲], [▼] to move the selection boxes. Press [◀], [▶] to select submenu parameters. 2. Switch ActiveX on screen.
		[↻]	1. Confirm operations in menu mode. 2. Select record type in setting schedule. 3. Change status of the current motion detection block.
③	DVR	H.D	Hard disk indicator. Green. Blinks when reading/writing. Black when non - operation.
	Alarm Light	ALARM	Event alarm indicator. Light when alarming. Black when not when not alarming.
	Infrared Light	IR	Remote control indicator light. Green. It's flickering when remote control is operated. Or it's off.
	LED	PWR	Two colors. It's red when standby. Green when start to work.

④	Main Functions		Auxiliary function button 1.Switch between signal image and multi images in preview and playback mode. 2.Enter/exit continuous selection when setting motion detection area and record mode. 3. Set start time and end time in file search.
			go to next frame
			1.Play/Pause 2.One key file search.
			Stop
			One key enter Manual recording.
			One key PTZ control.
			One key system setup.
			Return to upper menu. The same as 【ESC】 button on the remote control.
			Volume adjustment 0~8
			Acknowledge alarm.
			Backup record.
⑤	Power on/off		Press it to power on/off device. Hold pressing 3 seconds to shut down forcibly.

2.3 Rear Panel



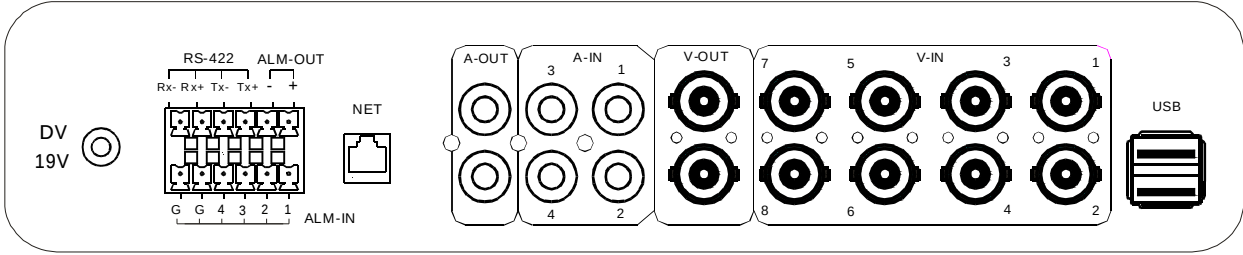
Picture 2 -2 10" monitor rear panel



Picture 2 -3 17" monitor rear panel

Function	
OSD	support to operate by cursor, remote controller and front panel Navigation embeded; Support Traditional Chinese, Simple - Chinese and English. Could upgrade to support other language ;Desktop show recording and alarming status visually,Panel show recording and alarming status
Record	5 mode of record:Manual, timing, motion sense linkage, alarm linkage, motion sense & alarm linkage
Play - back	Play - back interface show directly the play - back status and the current play speed. Support real time play - back of multi channels of video & audio . Support speed play/slow play/ single frame forward/speed back, 4 channels play - back, max 16 times .
Backup	Support U - disk, USB hardware, USB CD/DVD backup. Backup format H.264 RAW directly.
Internet function	Support Ipv4, PPPOE client, DHCP client, TCP/UDP agreements. Offer Web user port and user port software. And support remote configuration,browse video,local record, local and remote play - back, remote PTZ control. Internet transfer supports independent coding. Delay less than 300ms LAN .
Operation file	Operating and alarming message auto record. Record file, including
PTZ control	Support Pelco - P、Pelco - D、Samsung agreements, Support upgrade of agreement; Support Pan, Tilt, Zoom Preset zoom,cruise and locus and ON/OFF control assistance.
Alarm manage	Support 4 channels alarm input which could be setup as Normally On, Normally Close Support Motion detection,support Alarm for video loss(Network port could setup) Alarm could trigger to recording, Link PTZ preset point and sound alarm. Support alarm message to send to Web user port or user port software
User manage	Double user manage, support user key word setup, key word restoration and Permission setup . Operation permission of Admin user could not be changed, including all operation
Assistan function	Hardware watch - dog circuit. Monitor will re - open autoly when equipment stop responding for more than 30s.

Parameter of audio & video			
Parameter of video	Video code standard	H.264 Baseline	
	Syestem	PAL/NTSC/SECAM	
	Video code	PAL:352×288 (CIF) NTSC: 352×240 (CIF)	
	Video frame rate	25F/S/CH (PAL) 1, 3, 6, 12, 25 user setup。30F/S/CH (NTSC) 1, 3, 7, 15, 30 user setup.	
	Video output code	32kbps - 2048kbps (14M byte/hour - 922M byte/hour)	
	Preview resolution	PAL: 720×576 (D1) , Holizontal 550, Vertiacal 450 NTSC: 720×480 (D1) , Holizontal 550, Vertiacal 400	
	Playback resolution	PAL: 352×288 (CIF) , Holizontal 300, Vertiacal 250 NTSC: 352×240 (CIF) , Holizontal 300, Vertiacal 220	
Parameter of audio	Audio code	G.726ADPCM	
	Audio Frequency	2W×2	
	Input/output	8KHz	
	No. of track	single channel	
	Sample digit	16 bit	
Other	Voltage	DC 14 - 19V2.5A, positive inside/negative outside, with power adapter	
	Operation temperature	0℃ – +50℃	
	Operation humidigy	10% ~ 90% RH	
	Power	25W (HD) (10" MR) 37W (HD) (17" MR)	40W (HD) (19" MR)
	Dimensions (W×H×D)	295.6mm×135mm×44.8mm (10" MR) 392mm×431.8mm×86mm (17" MR)	429.6mm×386.1mm×88mm (19" MR)

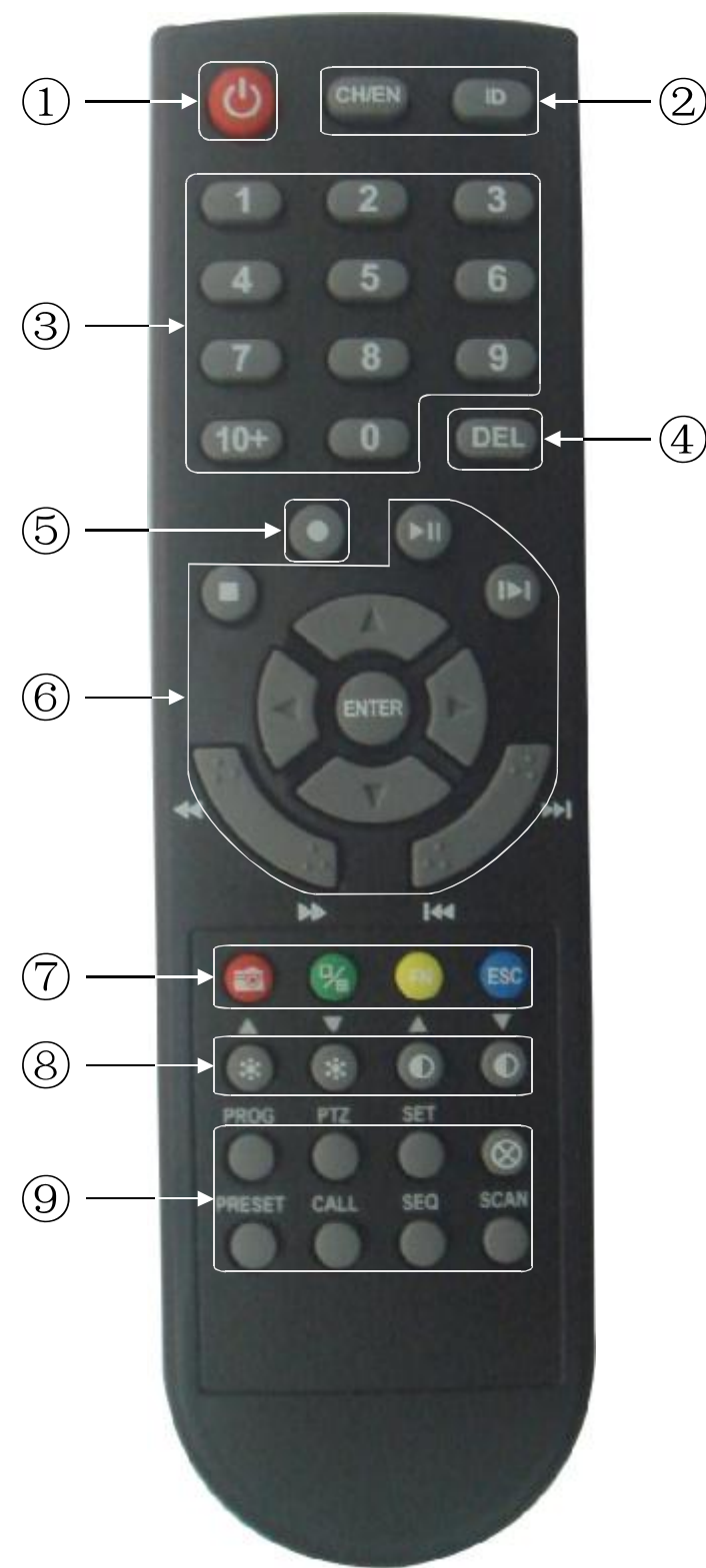


Picture 2 - 4 19" monitor rear panel

Chart 2 - 2 Rear panel connections

NO.	Description	
①	4 channels	8 channels
②	USB interface (up): USB 2.0 USB interface (down): USB 1.1 Support USB storage device, USB mouse, USB burner. Suggest to use USB1.1 to connect USB mouse, 2.0 to connect storage device.	
③	V - IN: 4 channels video input, BNC interface (1Vp - p, 75Ω)	V - IN: 8 channels video input, BNC interface (1Vp - p, 75Ω)
	A - IN: 4 channels audio input, RCA interface (2Vp - p, impedance: 600Ω)	
④	V - OUT: 4 channels video input, BNC interface (1Vp - p, 75Ω)	
	A - OUT: 1 channel audio output, RCA interface (2Vp - p, impedance: 600Ω)	
	NET: RJ45, 10/100 self - adaptive	
⑤		ALARM OUT: 1 channel switch - level output, relay characteristic 30VDC 1A, 125VAC 1A
		RS422 interface: for duplex operation of data transmitting and receiving. Tx+: transmit data + interface Tx -: transmit data - interface Rx+: receive data + interface Rx -: receive data interface
		ALARM IN: 4 channels switch - level input, N/O. or N/C. G: For ground connection.
⑥	Power input interface: DC 19V / 2.5 A	

2.4 Remote Control



Picture 2 - 5 Remote Controller

Charter 5 Appendix

5.1 Appendix 1: Specification

Table 5 - 1Technical data

Item		4 channel produc	8 channel produc
Main informaiton		Linus 2.6 operation system 4 operation :Record, reverse, preview & internet browse	
Outer port	Coding video input	4 channels video input, BNC jack, 1Vp - p, 75 Ω PAL(625lines 50f/s), NTSC(525lines, 60f/s), SECAM(625lines 50f/s)	8 channels video input, BNC jack, 1Vp - p, 75 Ω PAL(625lines 50f/s), NTSC(525lines, 60f/s), SECAM(625lines 50f/s)
	Coding audio input	4 channels input, RCA jack, 2Vp - p, 600 Ω	
	CVBS output	1: RCA jack, 1Vp - p, 75 Ω	1: BNC jack, 1Vp - p, 75Ω
	Audio output	1: RCA jack, 2Vp - p, 600 Ω	
	USB port	2: Port USB 1.1 & USD 2.0 Postposition Support USB memory equipment, USB mouse, USB copy equipment It's suggest that Port USB 1.1 connect with USB mouse, Port USB 2.0 connect to memory equipment.	
	RS242	1: Dispatcher/receiver	
	Innetnet port	1: RJ4510/100M Auto - adapted	
	Alam input	4 channels input	
	Alarm output	1 channel output , relay characteristic 30VDC 1A, 125VAC 1A	
	SATA port	1: Support 1pc of SATA HD, uppport 1T HD	

4.10.2 Camera Advanced Setup

Enter Tool System menu Camera setup Adanced Setup interface

Motion event response

When motion event appear in destined area,there's some linkage response to setup: Trigger record, Triger alarm output, Sound alarm, upload center

Note :Setup of Motion area and Sensitive, please refer to 4.4.2 Motion detection setup

Video loss response

When video of selected channel loss, linkage response of video loss event could be setup, including: Trigger alarm output, Sound alrm, Upload center

Camera offset

Including horizontal offset and vertical offset. Setup up and down, left and right offset for video image.

4.10.3 Network Connections

Enter<Tool> - (System menu> - - <Network setup> advanced setup interface

Setup PPPOE

Choose PPPoE, press to enter PPPoE interface for USER and Key word.The equipment will dial no. when information login successfully. After dialing, the IP address and other network message will be showed on the interface.

To setup DNS serve address, DNS serve IP address should be log in.

Setup dynamic domain name

Choose to turn on Dynamic domain name, press to enter interface for setup dynamic domain name. Choose one of domain name server, log in address of dynamic domain name, user and keywor.

Note: This product now offer 6 kind of domain name server.

Setup auto registration

Choose to turn on auto registration. Press to enter auto registration interface. Then log in IP address & port of host computer,interval of register

File communnicate

Cross to open File communcation. To visit record file in DVR HD via neighbor of PC.

The way to visit communicate file

Open network neighger, log in IP address, such as \\192.168.10.220 to enter login interface. Log in Admin user name and keyword to get into list of communicate. Click videoout file to look over record file.

Note: When play software is setup, the record file could be play by Windos Media Player

Chart 2-5 Remote control buttons

NO.	Name	Description
①	Power on/off	Turn on/off the device, same as the  button of front panel
②	Function Buttons	【 CN/EN 】 : Switch from Chinese to English, or reverse. 【 ID 】 : Set ID of remote controller.
③	Numbers	Input numbers or select to switch among relevant channels.
④	Function Buttons	【 DEL 】 : Delete
⑤	Function Buttons	 Record, same as the  button of front panel. 。
⑥	Play control	 : Stop,  : play in slow mode/fast rewind,  : fast forward,  : Play/pause,  : go to next frame,  : go to next section ,  : Go to previous section, Arrow buttons : The same as arrow buttons of front panel
⑦	Function Buttons	 : Picture capture  : Switch from single split to multiple splits view mode  : Auxiliaries, same as the  button of front panel.  : Return to upper menu, same as the  button of front panel
⑧	Adjust Picture parameters	 : Adjust brightness up/down。  : Adjust contrast up/down
⑨	Function Buttons	【 PROG 】 : Set sequence , 【 PTZ 】 : Enable PTZ control, same as the  button of front panel. 【 SET 】 : Set parameters, same as the  button of front panel. 【 × 】 : Cancel alarm notifications, same as the  button of front panel. 【 PRESET 】 : Set preset 【 CALL 】 : Call preset. 【 SEQ 】 : Call sequence. 【 SCAN 】 : Scan automatically .

Note: The following buttons are disabled currently: 【 ID 】 、 【 CN/EN 】 、 【 PROG 】 、 【 PRESET 】 、 【 CALL 】 、 【 SEQ 】 、 【 SCAN 】 、  、  、  .

2.5 Hard Disk Installation

The hard disk is not included in the factory fittings. Users can mount suitable hard disk by calculating its capacity referring to "5.2 appendix 2".

Hard disk installation:

- 1. Take off the hard disk box on the rear
- 2. Instal the hard disk into the box and fix it.
- 3. Connect Hard disk power line and SATA data line(Pay attention to the direction of connection)
- 4. Fix the hard disk box to the rear of equipment

Tips 1: Hard disk choosing notice: please choose video surveillance special used hard disk, recommended By hard disk manufacturer. Make sure suitable for long time and large data read - write. Please Purchase from formal channels to have good quality.

Tips 2: Please format the hard disk after installation before use. Refer to "4.9 Equipment Maintenance"

2.6 Connection

Power Input

Make sure the input VAC is matching to the power adapter. Connect the power adapter to the power supply. If the connection is correct, the LED will light.

Tips: Please use the power adapter contained in the package to avoid any defect.

Video Input

The video input interface is standard BNC interface. The input signal must be PAL /NTSC BNC(1.0 Vp - p, 75Ω).

Tips: The video signal cable should keep away from the interference of strong electromagnetism and city electric field.

Audio Input

The audio input interface is RCA interface (2Vp - p,600Ω). The audio impedance is a little bit high. Please use active sound collection device or active microphone. And the audio signal cable should keep away from the interference of strong electromagnetism and electric field.

Network Input

The equipment has standard RJ45 interface. Can be connected to LAN or WAN conveniently. Please provide sufficient bandwidth for fluent and clear image network transmission when connecting to network.

4.9.4 Maintainance

HD formatting

Please make sure that important record file is backup before HD formatting.
Please stop all record services before HD formatting, and follow the tips on interface to get HD formatting.

Logout user

Enter Tool System munu reserve setup, and choose Logout, then the system get back to preview interface and Login interface. Other operateion could be done when correct keyword is logged in.

4.9.5 Restore Factory Setting

Enter Tool System munu reserve setup, and choose Restore Fctory Setting, the system will remind RECONFIRM or not. Press yes, and the system will be resotred to Defaultl setting when re - opened.

Notes 1: Please refer to 5.3 Appendix 3 System Defaut Data for Defaute data of each menu

Notes 2: Restor factory setting does not change language, Time and Camera Syetem in system; does not change IP address, Subnet mask and HTTP of network information.

4.10 Advanced Setup

Note 1: This charpter for 8 channels product only. For 4 channels product, please enter Web USER port for correlative operation and setup.

Note 2: The login user must have permission on setup for Operation in this charpter. Please user Admin user to log in and operation.

4.10.1 User Management

Enter Tool Syetem Menu System Setup Adanced seting interface, choose Permission manager to enter User Permission Setup interface

Permission setup including Local and remote Permission setup items. See below the picture:



Picture 4- 7 Permission setup

User Direction: Up/Down/Left/ Right to focus on some chosen item. Use OK to confirm or cancle your selection. Press ENTER to preserve your setup.

File Download :

The File download operation part is on the right bottom of the screen.

Click  to set the storage directory of the file selected. Click  to start downloading.

4.8.2.4 Remote Log Review

Click  to enter interface of Log search and Backup. Log search support 4 way of searching: All, Type, Time, Type & Time. Choose search way and channel no., and click SEARCH to have log information that tally with require.

4.8.2.5 Remote Equipment Update

Enter selection of Equipment Parameter, Equipment manage. User Browse to choose file that needs upgrading, click Start for upgrading. In case exception occur during upgrading, choose stop upgrade to stop your operation.

4.9 Equipment Maintenance

Enter Tool, System Menu, Equipment maintenance interface to have operation of maintain for correlative equipment

4.9.1 Log Review

1. Choose log type that you want to check: All/ Operation/ Exception/ Alarm
2. Choose the time that you want to check
3. Press Search, detail information is showed on interface

Note 1: When there's record information in your search result, enter  on right side of the log to play.

Note 2: Log can record max 30000pcs record currently. The way of record wash out: To replace the earliest log information autoly.

4.9.2 System Update

The product support update way: Local USB, IE, User port software

By USB: Make sure USB is correctly connected and upgrade program is copied in USB before operation.

Upgrading by tips on the interface.

After upgrading, there will Reboot tips on the screen. The system would run with new software when rebooted.

By IE: Please refer to 4.8.2.2

By user port software: Please refer to illustrate of User port software

4.9.3 Equipment Information

HD Capacity: Show the capacity and left capacity of current HD that connects to equipment.

Hardware Edition: Show information of current Hardware Edition

Software Edition: Show information of current software Edition

Issue Date: Show issue date of current software.

Alarm Input and Output

The alarm input device should be the type of GND connected alarm or voltage input alarm, Can be N/O(normally open) or N/C(normally closed).

The level request of voltage - mode alarm signal: low level range: 0~2V, high level range: 5~15V.

The green angle pins of signal cable are supplied for access of PTZ and alarming devices. Please follow these steps to connect:

1. Pull out the green angle pins.
2. Loosen the screws on the plug by small crosshead screwdriver. Put the signal line under the spring piece inside the plug, tighten the screws.
3. Plug in the connected pins into green angle pin socket.

Connect PTZ

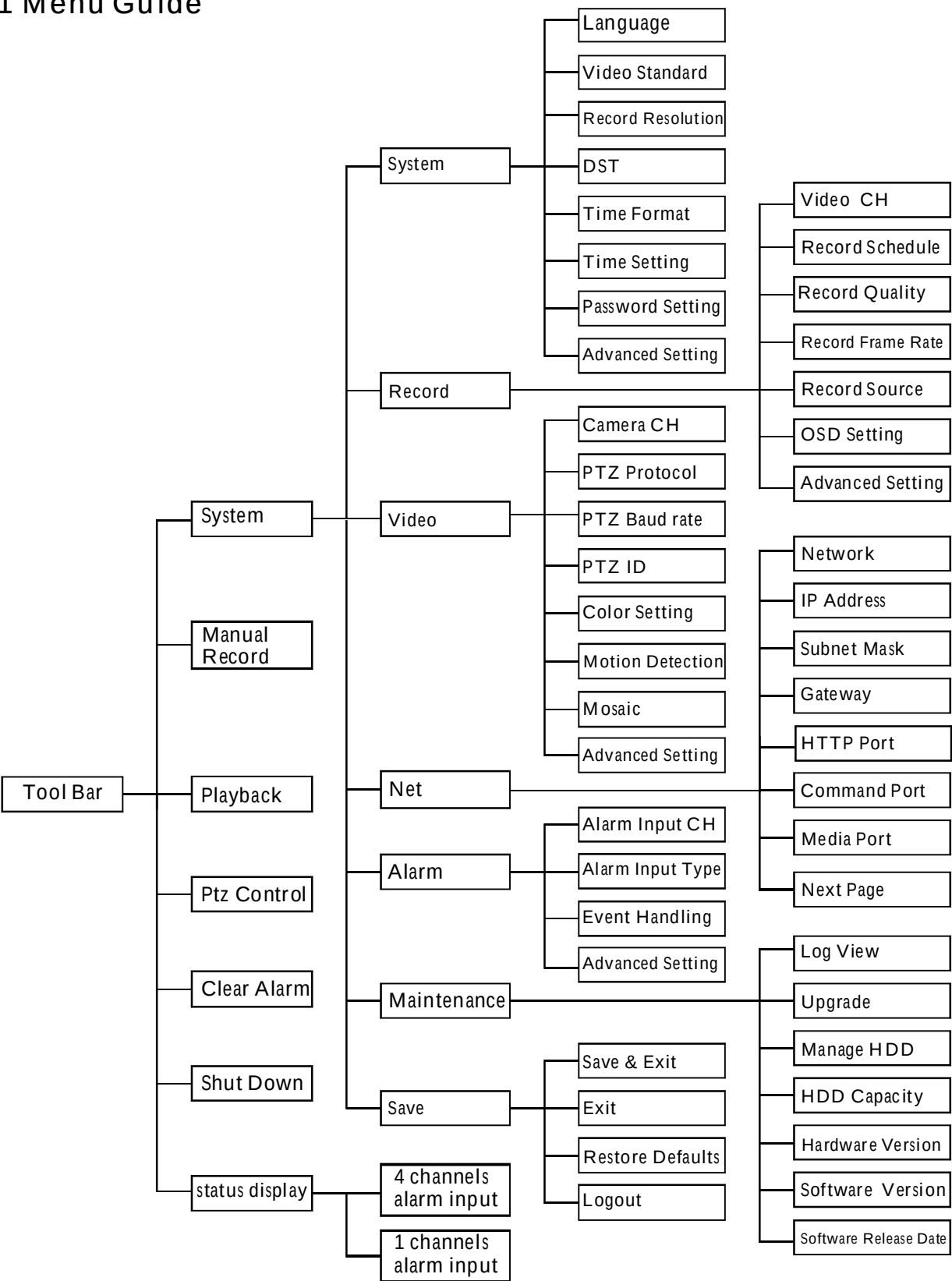
Connect the PTZ control interfaces to RS422 TX+ and TX - in the rear panel. The method is as above.

Tips: Some PTZ have different communication protocol, baud rate and address code. Please refer to the instruction and setup the matched parameter.

Video Output: VGA/Monitor (CVBS Output)

Chapter 3 Menu

3.1 Menu Guide



Picture 3-2 Menu Structure

User Management Option Card

Including User Limit and Keyword Setup. Information interface at equipment port: Toolbar System Menu, Syetem setup, Adanced Setup
When login with Admin, User limit and keyword could be change directly.

Equipment Management Option Card

Including remote equipment upgrading and Time revising
<Time revising> can change time of equipment to the time of connected PC

<Equipment status> Option card

Including HD and channle status information

4.8.2.3 Remote File Playback and Download

Press  to enter interface of Playback searchk, Play and Download.

File Search

Up right side of interface is for File searching. Please setup object file, Channel no. file type, Interval. Click Search, the form would show file list of search result. Cross the file to enter Play/Download opreation.

File play

Left side of interface is for playing. There include Play display frame, Play controller, information interface Choose the object file, Press PLAY. And the chosen record file will be play in the order of time.Guagage as below picture:



Play controller as below picture:



Play; Pause; Stop; Go to next frame; Fast play option (The speed of playing will be doubled by each clicking. It includes: 2X, 4X, 8X, and 16X); Slow play option (The speed of playing will be half down by each clicking. It includes 1/2X, 1/4X, 1/8X, and 1/16X); Enhance contrast; Reduce contrast; Enhance brightness; Reduce brightness; Open/close voice; Go to previous file () and  is enabled only when multiple record files being selected to play); Snapshot (the storage directory can be set on the pop - up screen by clicking ).

The information of the record file selected will be displayed in the area shown as the figure below. It includes device's IP address, current play speed, channel number and start/end time of the record file.

Picture Preview

Including: Amend of Preview picture parameter on 4 channel, Sound preview, Record, Print screen function operation

- , : Add / reduce picture contrast
- , : Add / reduce picture Brightness
- : On/off Web user port Sound monitor. Icon turns to Green when record on.
- : On/off Web user port monitor. Icon turns to Green when record on.
- : Shot screen for the video of this channel
- : Turn off Preview of current channel

Note: Click to set the storage directory of record files and pictures captured.

PTZ Operation

PTZ operation interface is similar to Equipment port. Please refer to 4.4 PTZ Control

Note: For assistance equipment, IE port support 4pcs.

4.8.2.2 Remote Equipment Data Parameter Setup

Press to enter interface of Equipment parameter setup. All parameter of equipment



(Equipment parameter) Option card
Including Server collation information, Network collation information, Active register, Edition information. All the setup, except “Active register”, can be showed and changed on interface of Equipment Toolbar, System setup.

Active register: To setup information from equipment actively register to Center manage software. Including Network service address, port and register interval.

Note: If the current IP mode is dynamic achieve, the IP address is allotted and unchangeable.

Channel parameter option card
Including motion detection setup, Video loss setup, Channel superposition setup, Image code stream and Frame rate setup, Image parameter setup, Recording time plan table.

Note: Can setup in one channel firstly. And after setup, copy the information to other channels.

Serial port parameter option card
Including PTZ agreement of channel Camera, baud rate, address code setup. Information interface at equipment port : Toolbar System setup Camera setup

Alarm parameter option card
Including Alarm input Setup, Trigger setup, Linkage setup. Information interface at equipment port: Toolbar System setup, Alarm Setup.

3.2 Menu Operation

- Press 【SET】 to enter system menu.
- Press 【●】 to enter manual record setup.
- Press 【▶||】 to play record file. Press
- Press 【PTZ】 to enter PTZ control.

Tips: 【XX】 for menu buttons, <XX> for equipment interface display menu and menu options, 【XX】 for front panel and remote control button.

Menu Selection

The highlight menu is the current active one. User can move highlight icon to the menu needed using 【▲】、【▼】、【◀】、【▶】 button, and press button to confirm selection, or press 【ESC】 or button to return to upper menu.

Menu Items Type

Selection box: User can move highlight icon to the selection box needed using 【◀】、【▶】 button, and press 【OK】 button to confirm selection. Multiple items are allowed to be selected together at once by left clicking mouse.

List box: User can move highlight icon to the sub menu needed using 【◀】、【▶】 button. Or roll mouse to select directly. Only one item can be selected here.

Edition box: when in edition box, user can type in numbers directly by pressing number buttons or move cursor position using 【▲】、【▼】、【◀】、【▶】. Press 【DEL】 to delete the character before cursor and press or 【ESC】 button to exit.

Sub screen button: Press it to pop up sub screen. When in sub screen, select 【Confirm】 to save configuration and return to the upper menu. Press 【ESC】 or select 【Cancel】 to return to the upper menu without being saved.

Use 【◀】、【▶】 to move highlight icon to any of the selection boxes. Press button to switch to another selection status. Use 【▲】、【▼】 to specify the sub menu value where sub menu selections exist.

Save/Exit

Exit: User can click button on the right upper corner, or single right click mouse, or press 【ESC】 button to enter into the Save & Exit screen. When you exit, you can enter <Toolbar> - - <System> - - <Save Setup>. You can select exit directly or exit after being saved.

Note: There are three different ways to take effect: take effect instantly, take effect after being saved, and take effect after restarting device. Please refer to the navigation for details.

Chapter 4 Operations instructions

4.1 Power On

Startup After powering on correctly, the Power LED will light green. The monitor will be auto - start. Please refer to 2.6 Rear Panel Connection for details of connection method. The login box will appear then. Please select proper user and type in relevant password to log in.

- Note1: It costs about 60 seconds to start up, please wait for a moment.
- Note2: Modify password by selecting <Toolbar> - <System> - <System Setup> - <Password Setup>. Set as indicated, new password will take effect instantly.
- Note3: Default password for User is 666666; default password for Admin is 888888. Admin password can be restored to factory defaults by short - circuit the "JP 10" or "JP 15" on main board. User password can be reset by Admin by IE in 【 User Management 】
- Note4: The DVR will buzz and "NO Hard disk" appears when without hard disk.

System Setup

Language: Please enter <Toolbar> - <System> - <System Setup> - < Language> to set language.
Date/Time: Please enter <Toolbar> - <System> - <System Setup> - <Time Format> to set time format. 12 hours and 24 hours are supported. Please enter <Toolbar> - <System> - <System Setup> - <Time Setup> to set date and time.
Video Standard: Please enter <Toolbar>?<System>?<System Setup>?<Video Standard> to set video standard. PAL, SECAME, and NTSC are supported. Please set according to the parameters of camera.

- Note1: In order to avoid record files' time confusion, you'd better stop recording before modifying system time.
- Note2: "Language" and "Time" will take effect instantly. "Record Resolution" and "Video Standard" will take effect after being saved. Will take effect after [Save&Exit]
- Note3: Users can refer to the navigations on the bottom of the main screen to look for relevant guides. Meanwhile, the structure will present "take effect instantly"/" take effect after being saved"

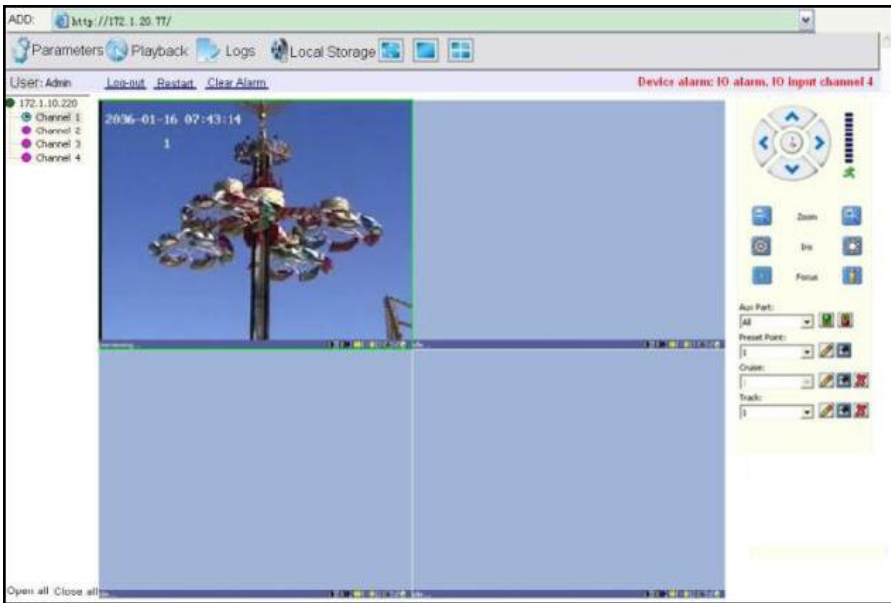
4.2 Preview Setup

After start - up system, the screen has live view area/system status/toolbar. Right click mouse in preview mode or press  on the front panel , the Toolbar will appear.

4.2.1 Video Channel Preview Area

Videos, OSD of channel name, motion detection notifications will be displayed on the screen.

4.8.2.1 Web Interface Brief Introduction



Picture 4 - 6 IE Interface

Aderess bar
Show IP address of login equipment

Tool bar



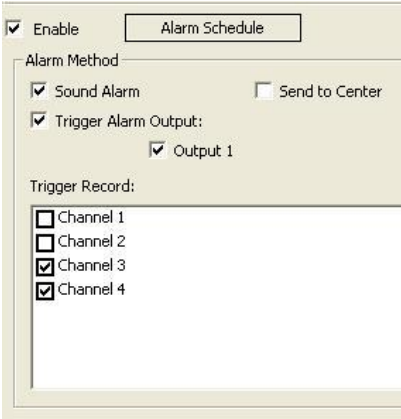
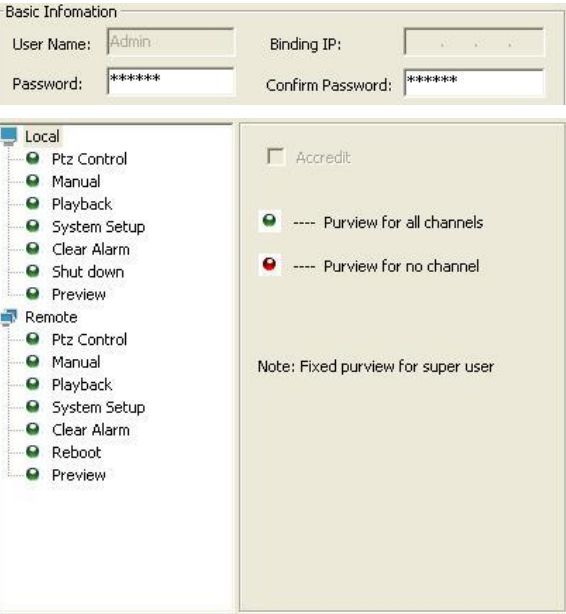
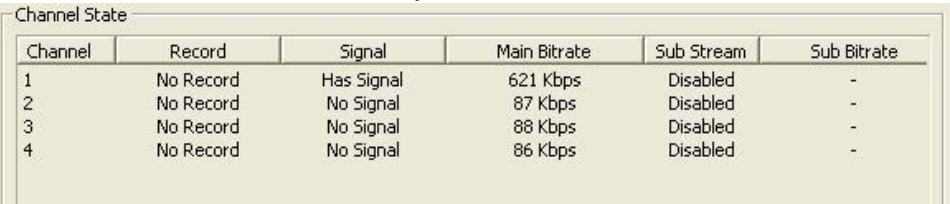
To read and change Equipment parameter
Search and playback of equipment record file and local file.
Search and Lead - out of equipment operation log.
Setup of local record file store list.
Swift operation of video image amont Full screen, Single image, quad image.



User Log out, Equipmetn reboot, IE dis - alarm operation

Information tip zone

When network connection is broken or abnormal, the alarm notification of "No heartbeat of device, please check the network!" will be displayed in the right up side of the main screen. After recovery of network, the preview will be displayed automatically.
When alarms of remote notification occur, the alarm notification with alarm input number contained such as "Device alarm: IO alarm, IO input x" will be displayed in the right up side of the main screen.
When alarms of motion detection with remote notification occur, the alarm notification with the alarm channel number contained such as "Device alarm: motion detection, channel 1" will be displayed in the right up side of the main screen.
When alarms of video loss with uploading to center occur, the alarm notification with the alarm channel number contained such as "Device alarm: video loss, channel x" will be displayed in the right up side of the main screen.

<Alarm> Tab	Can setup Trigger of Alarm output: Trigger Sound Alarming, Upload center Alarm , Linkage Alarm output 
<User> Tab	The password and authority of Admin and User can be modifying. 
<Device> Tab	User can adjust DVR time accordance with PC time.
<State> Tab	Device states can be viewed directly. 
PTZ	Support up to 2 auxiliary channel on local side and 4 auxiliary channel on IE side: 1、2、3、4。 

Preview Operation

View Mode Switching

Preview can be "single"/"quad"/"9 images" .
When in 4/9 splits view mode, the tile with highlight white border is the current selected one. User can use mouse or press 【 Direction 】 buttons to switch to another tile. If the audio output device is connected, the audio can also be previewed together with video.

User can select to display a single particular channel by pressing the corresponding 【 Numbers 】 buttons 1~8. When in single split view mode, user can enter into 4/9 splits view mode by pressing  button directly, or reverse.

Note: For 8 channels, the view mode can be directly switched by toolbar. Please refer to 4.2.3 " Tool Bar"

Image Parameters Setup: Please enter <Toolbar> - <System> - <Camera Setup> - <Image Setup> to set brightness, contrast, hue and saturation. It will take effect instantly.
Note1: User can set image parameters of one channel one time or all channels together at once by selecting 【 All 】 in <Camera Channel>. It is similar in other screen when user wants to set four channels together at once: select 【 All 】 in <Channel>.
Note2: In preview mode, brightness, contrast can be adjusted by remote control directly.

OSD Setup

The OSD of channel name and system time is supported. Please enter <Toolbar> - <System> - <Record Setup> - <OSD Setup> to set. The channel name will be displayed on left upper corner and the channel time will be displayed on the righter corner of the screen.

Channel Status Display Area

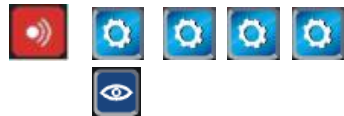
The channel status includes: "motion detection" / "common recording" / "motion recording" / "alarm triggered recording" / "external alarm input" / "alarm output". Indication of "motion detection" / "common recording" / "alarm recording" / "input alarm recording" will be displayed on the right upper corner of screen. The details are as follows:

-  : indicates "motion detection". The setup of motion detection includes sensitivity and area selection. Please refer to ".4.2 motion detection setup".
-  : Blue indicates "ommon recording". Please refer to "4.3 recording setup".
-  : Green indicates "motion detection triggered recording".
-  : Red indicates "alarm triggered recording".
-  : Grey indicates "manual recording".

Indication of "external alarm input" / "alarm output " will be displayed on system status column or Toolbar. The details are as follows:

4.2.2 System State

In preview mode, the system status bar will display current system status, including: "External alarm input" / "Alarm output" / "Hard disk capacity" / "Number of the client connection" / "System time." Please refer to "4.2.1 channel video preview area" for alarm input/output status.



 : The 4 icons indicate the alarm input status. When alarming, it changes into red  . External alarm input can trigger multiple events handling. Please refer to "4.7 Alarm Setup".

 : The last icon indicates alarm output. When alarming outputs occurs, it changes into red 

 : Volume state. It's red when the system is mute.

 : Indicates hard disk being ok. The number indicates the percentage of the total capacity of the hard disk.

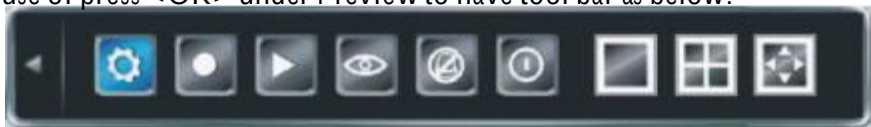
 : Indicates "ard disk error" Or "No hard disk".

 : Indicates client connection. The number shows client linking number.

 : Indicates "No client connection"

4.2.3 Toolbar

Right click mouse or press <OK> under Preview to have tool bar as below:



Picture 4 - 1 Tool bar of 4 channel product

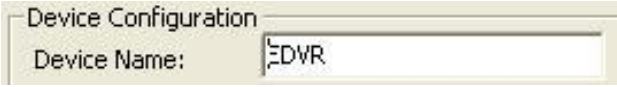
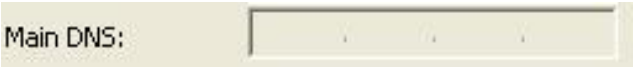
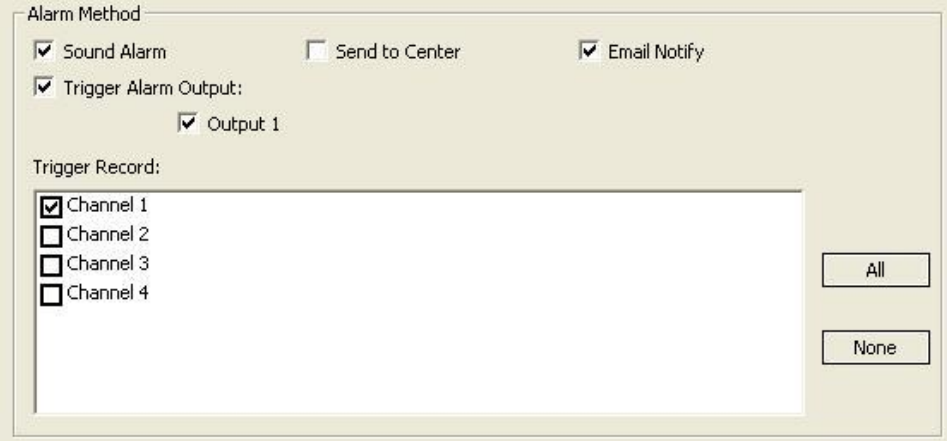
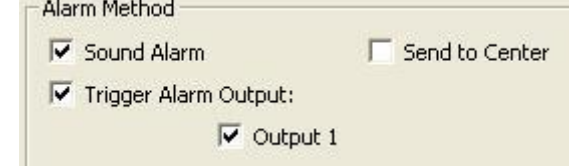
-  : Hide the tool bar.
-  : Setup parameter of equipment. See detail at 3.1 Menu Guide
-  : Manual record. See 4.3.1 Manual record for details.
-  : To search, playback, backup of record file in the Hard disk. See 4.5 File playback and 4.6 Backup for details.
-  : PTZ operation. Please see 4.4.1 PTZ Control for details.
-  : Alarm cancel. Click this button will pop a message to show the present alarm information.
-  : Power off.
-  : To set the view mode of "Single splits view", "4 splits view" ,
-  : To adjust the screen, 8 pixels per unit.
-  : To reduce or increase screen in vertical direction.
-  : To reduce or increase screen in Horizontal direction.



Picture 4 - 2 Tool bar of 8 channel product

-  : Hide the tool bar.
-  : Setup parameter of equipment. See detail at 3.1 Menu Guide
-  : Manual record. See 4.3.1 Manual record for details.
-  : To search, playback, backup of record file in the Hard disk. See 4.5 File playback and 4.6 Backup for details.
-  : PTZ operation. Please see 4.4.1 PTZ Control for details.
-  : Alarm cancel. Click this button will pop a message to show the present alarm information.
-  : Power Off

Form 4 - 2 IE port added setup function

Content	
<Server> Tab	IE port could collacate Equipment name 
	User PPPOE dial, DNS address could be set. 
	Can setup manage of IP information 
	Can setup visiting way as via Registered domain name 
<Channel> Tab	Channel name can be user - defined, and Font and size of letter can be setup. 
	Motion detection can setup: Trigger Sound Alarm, Upload to Alarm Center, Linkage alarm output. Motion detection can linkage to Multi channel record, and Equipment port setup could only be 1 & 1 corresponding. 
	Can setup Trigger of Video loss Alarming: Trigger Sound Alarming, Upload center Alarm , Linkage Alarm output 

4.8 Network Connection

4.8.1 Network Setup

Please enter <Tool Bar>→<System>→<Network Setting>→<Network Connection>, there are three connection types: Static IP, DHCP and PPPoE.

Static IP: If this type selected, please type in IP address, subnet mask, and gateway. User can ping network to check its connection status.

DHCP: If this type selected, a DHCP server should be set in network. A dynamic IP of device will be assigned automatically and displayed on IP Address column.

PPPoE: Click [>] , the PPPoE setup screen will appear. Type in user name and password and click [OK] to confirm. System will dial automatically. After accomplishing dialing, the IP address will be assigned and displayed automatically on IP Address column.

The following are types of ports:

HTTP Port: It is the port number of browsing through IE. Default is 80.

Signal Port: It is the first entry port for communication between web client and device, which is mainly used for controlling of log - in, log - out, real - time preview, remote playback, and remote download, etc.

Media Port: It is for media stream transmitting including real - time stream, voice stream and file stream etc.

Note1: All of these settings of network will take effect after being saved.
Note2: Some products need enter <Network Setting>→ [Advanced Setting>] to set PPPoE.

4.8.2 Web Client Operation

Open IE Browser, log in IP address of equipment to enter IE log in interface

Note 1: When use PPPOE or DHCP to connect to network, recheck of IP address is asked when equipment reboot.
Note 2: When it is the first time to use IE log in the equipment, the system will tis to load install insert. Follow the Notes to operate. The default user name is Admin, keyword is the same as keyword for equipment software port log in.
Note 3: For 4 chanel product, IE port has more setup functon compared to Equipment port, see Form 4 - 2. For 8 channels product, function at locat port is achieved. For detail, please refer to 4.10 Advanced Setup.

-  \  \  \  : To set the view mode of "Single splits view", "4 splits view" , "8 splits view" , " 9 splits view"
-  : To adjust the screen, 8 pixels per unit.
-  \  : To reduce or increase screen in vertical direction.
-  \  : To reduce or increase screen in Horizontal direction.
-  \  \  \  : To move the screen up, down, left, right
-  : To zoom out the screen to largest and show in central.

Note 1: When mouse moves to the tool bar icon, the indication information will come out to help users to understand.
Note 2: When video source is PAL, screen display range max is 720 x 576; When NTSC, screen display max 720 x 480.

4.3 Record Setup

Record type contains manual record and schedule record. The priority of manual record is higher than schedule. If the record schedule is confilct with manual record, the manual record will be processed firstly until the namual recod being canceled.

Record types include"Common recording" / "Alarm Trigger Recording" / "Motion Detection Recording" / " Motion Detection Triggered Recording". Each of them is indicated with grid of different color. And each color indicates a particular record status. Please see Fig 4 - 3 Record Schedule for detail.

Record resolution: Fixed in the CIF fromat options if the device only supports CIF format. Other formate, "CIF" / "2CIF" / " D1" show in the menu.

Record quality: Best768Kbps, High640Kbps, Better512Kbps, Common384Kbps, And user setting can help user to set bit rate.

Record Frame rate: if the curretn selection is PAL, the frame rate options are All, 12, 6, 3, 1 Customized. Defulty is All, 25fps for PAL and 30fps for NTSC.

Record Resource: Video for vidoe only or ‘Video And Audio’ for recording video and audio.

Record Resource: "Video" for video only or "Video and Audio" for recording video and audio. Sub - stream: sub - stream can be enabled or disabled. After enabled, press  to set sub - stream, to set sub steam frame rate and bit rate. Sub stream frame rate rages from 1 to 15 frames, bit rate ranges from 32K to 512K.

Note 1: Please refer to Appendix 6.2 for the methods of calculating HDD capacity.
Note 2: The setting of Sub - stream for some products must enter [Advanced Setting] .

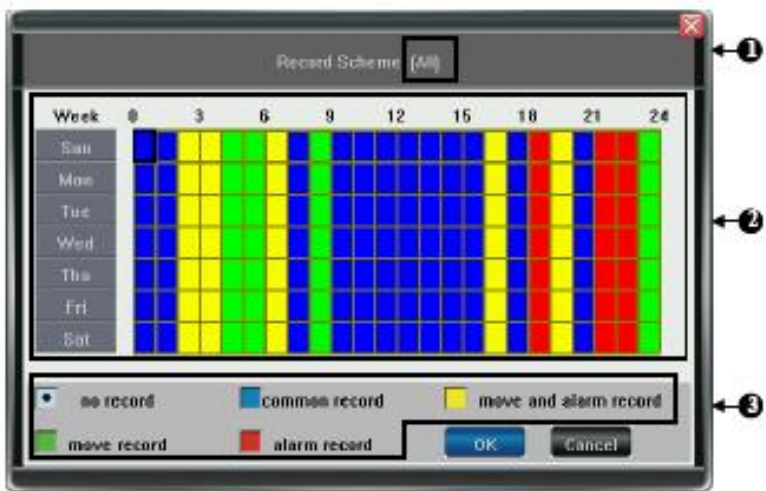
4.3.1 Record Manually

Please enter (Tool Bar> - < Manual Record> to let the specific channel record or not.
Presss [●] button to start/stop recoding manually.

Note : The type of the video recorded manually is “common recording”

4.3.2 Plan Record Setup

Enter < Tool Bar> - -<Syseem Menu> - - < Recod Setup> interface, choose <Record Plan> to enter



Picture 4 - 3 Record
1: The current recording channel number
2: The record Schedule
3: Description of record type

User are free to select a week day or the day of a period of time System provides a recording option for hours every day or a week day. Unit is hour. Ond grid indicates one hour.
Setup of all channel much be coincident. Then choose <All> to enter < Record Plan>

- 1. User< Direction: Up/Down/Left/Right> TO choose a time grid.(Unit as Day or Hour)
- 2. Specify the recording type by repeat pressing [↶] button or double left clicking moush,(the color of the grid will change relevantly)
- 3. Repeat step 1 and 2 to finish setup. Press < Enger> to confirm. The setting will take effect after being saved.

Note 1: Usee can copy the current setting onth neighboring grid by pressing <Fn> or [⌘] button firstly, <Direction> button secondly, and then the <Fn> or [⌘] button again to exit. Or user can drag mouse to set.

Note 2: When motion detection recording is selected, the mothion detection sestitivity and area should be set ahead. Please refer to 4.7.2 Alarm Linkage for details.

4.6 Backup

Enter Tool bar, Backup control interface, search and choose the record file, prss BACKUP to get inter backup interface.
Thy system will search and show all Backup equipment. Choose equipment and type of document, press BACKUP to start. If no equipment searched, there will Notes on interface and stop Backup. Make sure USB is well connected.

Note: Type of record: H.264, Raw & MP4. Backup MP4, equipment will backup
Play software in USB autoly. When play software is setup, the record file could be play by Windos Media Player

4.7 Alarm Setup

For connection of Alarm input and Alarm output, refer to 2.6 Connection
Enter Tool bar, Syestem menu , Alarm Setup interface, to setup Alarm

Note: All setup of alarm should be saved when exit to effect.

4.7.1 Alarm Input

Alarm input including Normally On and Normally Close
Normally On: Open circuit normally. When alarm signal trigger, circuit connected.
Normally Close: Short circuit normally. And disconnected when Alarm signal trigger.

4.7.2 Alarm Linkage

When Alarm happened,there’ s some linkage response to setup: Trigger record, Trigger alarm output, Sound alarm, upload center

Note 1: To linkage record when alarming, Time schedule of Alarm record should be setup in Record time schedule.

Note 2: PTZ preset point 1 can be setup when Alarming. Choose channel no. of Linkage PTZ to enter setup interface. When setup finished, PTZ will saved it

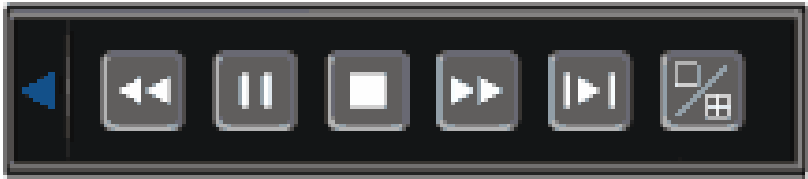
Note 3: Alarm linkage of 4 channels product: Sound and Upload center. The setup of them is in Network user port. For detail, pls. Refer to 4.8.2 Web user operation and table 4 - 2.

4. Setup of Time period, Channel no. and Time Scale, then press [◀]、[▶] to move focus to Search and use ⏮ to operat. Time scale will show the searched record.

5. After searching over, press [Fn] or [⏮] button to pop - up the timeline for selecting start point. Press [◀], [▶] buttons to move timeline, press [Fn] or [⏮] to confirm selection. Press [Fn] or [⏮] again to pop - up the second timeline for selecting stop point, press [◀], [▶] buttons to move timeline, press [Fn] to confirm selection.

After all settings, move highlight icon to [Play] using [◀], [▶] buttons, and press ⏮ button to start playing. move highlight icon to [Backup] using [◀], [▶] buttons, and press ⏮ button to backup.

Play control



- : Fast backward Press to circle between “ 8 times fast backward and 16 times fast backward.
- : Pause the current play, or stop the current pause.
- : Stop playing.
- : Click to control speed of Forward, the availabel forward speed are 1X, 8X , 16X, 1/2X, 1/4X
- : Go to next frame
- : Press to switch from single split view mode to multi split view.

Indi cation							
Speed	16X fast forward	8X fast forward	Normal playing	1/2X forward	1/4X forward	8X fast backwards	16X fast backwards

Note: When playback only one channel, the image will displayed in full - screen.

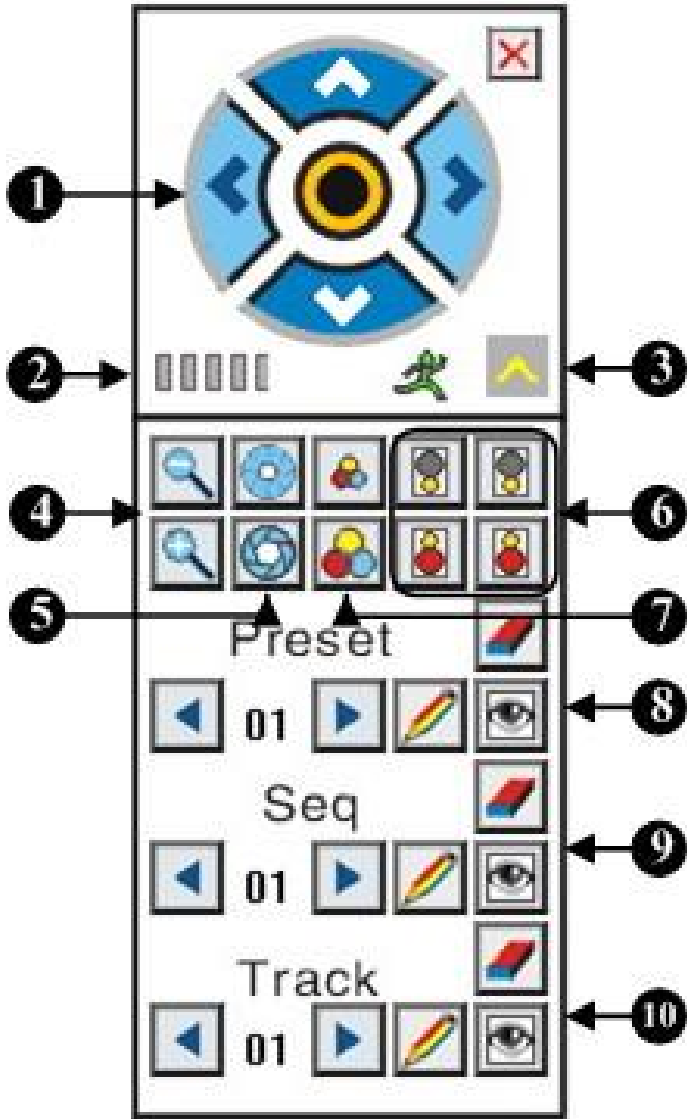
4.4 Camera Control

4.4.1 PTZ Control

PTZ Parameter setup
Enter <Tool Bar>, <System Menu> - - <PTZ Setup> to set camera channel,Protocal, Boud rade and ID.

Note: The different PTZ ontrolled by one PCI should have corresponding PTZ ID. There are 16 PTZ ID supported. Currently:0 - 15

PTZ operations
In preview mode, select a tile first (in 4/9/16 splits view mode, the selected tile is with highlight white border) using mouse or <Nurbers> buttons, and then enter <Tool Bar>, PTZ control to the PTZ Control interface that described as the table below:



Picture 4 - 4 PTZ Control int

Table 4 - 4 PTZ Operation Description

NO.	Name	Description
①	Direction	Click the arrow icons to control direction of PT Z. Click the center icon to  call sequence or run scanning. Please refer to the PTZ manual for details of PTZ scanning mode.
②	Speed	Set the turning speed of PTZ camera.
③	Advanced	Click  and  to show /hide the advanced setting screen (the part under the  button).
④	Focus	Click to focus - in and focus - out (it is disabled for cameras with automatic focus).
⑤	Iris	Click to make the image brighter or darker (it is disabled for cameras with automatic iris adjustment).
⑥	Auxiliary	Open/close auxiliaries: Click  to open and click  to close. Different functions respond to different protocols. The auxiliaries include light, rain brash, and power etc. please refer to PT Z manual for details. NOTE: Up to 2 auxiliaries are supported on device side. Up to 4 auxiliaries are supported on client web side.
⑦	Zoom	Click to zoom in/zoom out (it is disabled for cameras with automatic focus).
⑧	Prese	Preset is to set camera position, focus, zooming, and iris position, and then mark them in numbers for later calling. Up to 16 presets can be set currently. Set preset: 1. Select the preset number you want to name as. 2. Position the camera as desired position including direction, focus, iris and zoom value. 3. Click on the set button  . call preset: 1. Select the preset number you want to call. 2. Click on the go - to button  . Clear/reset preset: 1. Select the preset number you want to clear/reset. 2. Click on the clear button  .
⑨	Sequence	Sequence is a running route of camera that passes through multiple presets. Set sequence: 1. Select preset number you want to call. 2. Click on set button  . 3. Repeat step 1 and 2 to add the other presets till finishing. 4. Click on run button  . Clear sequence: Click on  button to clear sequence.
⑩	Track	Track is a continuous running route of camera. Set track: Click on  to start setting. Move camera as the track and pattern you want it to run. Click on  again to finish setting. Click on  to run track and click again to stop running. NOTE: Whether Track is supported or not is depending on the type of PTZ.

4.4.2 Motion detection setup

Motion detection Setup including Sensitive Setup and Area Setup. Sensitive has High, standard, low for choice. Enter Tool Bar, System Menu, Camera Setup, Motion detetion to setup. Use mouse to setup Motion detection area.

Panel operation: Enter motion area setup interface, the whole screen is divided as 16 x 12 area. User 、 direction key to move the focus among each block. Area setup as

1. User <Direction: UP/DOWN/LEFT/RIGHT> to move focus to a certain block, press  to choose the current status.(The chosen status is the block in high bright blue color.)
2. Press  or  , user <Direction: UP/DOWN/LEFT/RIGHT> to copy the status to neighbor Block. When setup of first motion area is finished, press  or  to exit.
3. Repeat step 1 and 2 to finish setup of second motion area.
4. When setup finished, press  or  to exit.

4.5 Playback

File Search

Enter Tool Bar, Playback control interface, choose date and channel that you want. Press Search, and result will be showed on interface. Different color refers to different record type. Please refer to Table 4 - 3 Record schedule. Choose time period by mouse or front panel.



Picture 4 - 5 File Search

Use mouse to choose Time Period.

Front panel: Use 、 to move the focus among selection.

1. Move the focus to Date, and use 、 to change time.
2. Move the focus to channel, press OK to choose or cancel.
3. Move the focus to  , press  to Zoom in or Zoom out time scale. When the scale is too large to show on the page, move focus to 、 , user  to operate.